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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Docket Clerk
P.O. Box 800889
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EXAMINER

EWART, JAMES D

ART UNIT PAPER NUMBER

2683

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/080,889	Applicant(s) CSAPO ET AL.	
	Examiner James D. Ewart	Art Unit 2683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on RCE 03 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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Response to Arguments

1. Applicant's arguments filed 30 November 2005 have been fully considered, but are moot in view of new grounds of rejection.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 November 2005 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1,3,6,8,16,18,21 and 23 are rejected under 35 USC 103(a) as being unpatentable over Freeburg et al. (U.S. Patent No. 5,471,471) in view of Lindskog et al (U.S. Patent No. 6,804,522).

Referring to claims 1, and 16, Freeburg et al. teaches for use in a base transceiver station of a wireless communication system, an apparatus for supporting dual standards comprising:

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utilizing a first standard (Figure 5 & 6 and Column 4, Lines 18-28) within a coverage area (Figure 5) and using a second standard (Figure 5 & 6 and Column 4, Lines 18-28) within the coverage area (Figure 5), but does not teach using a sectored antenna system for wireless communications and an omni antenna system for wireless communications. Lindskog et al teaches using a sectored antenna system for wireless communications and an omni antenna system for wireless communications (Column 1, Lines 53-61 and Column 2, Lines 47-48).

Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al with the teaching of Lindskog et al. of using a sectored antenna system for wireless communications and an omni antenna system for wireless communications to optimize performance and minimize interference of a cellular communication system (Column 2, Lines 45-54).

Referring to claim 6 and 21, Freeburg et al. teaches for use in a wireless communications system, an apparatus for supporting dual standards comprising: utilizing a first standard (Figure 5 & 6 and Column 4, Lines 18-28) within a first coverage area (Figure 5) and utilizing a second standard (Figure 5 & 6 and Column 4, Lines 18-28) within the first coverage area (Figure 5); and utilizing the first standard (Column 4, Lines 18-28) within a second coverage area (Column 2, Line 65 to Column 3, Line 7) and utilizing the second standard (Column 4, Lines 18-28) within the second coverage area (Column 2, Line 65 to Column 3, Line 7), but does not teach employing a sectored antenna system for wireless communications and an omni antenna system for wireless communications. Lindskog et al. teaches employing a sectored antenna system for wireless communications and an omni antenna system for wireless communications (Column 1,

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Lines 53-61 and Column 2, Lines 47-48). Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al. with the teaching of Lindskog et al. employing a sectored antenna system for wireless communications and an omni antenna system for wireless communications to to optimize performance and minimize interference of a cellular communication system (Column 2, Lines 45-54).

4. Claims 2,7, 17 and 22 are rejected under 35 USC 103(a) as being unpatentable over Freeburg et al. and Lindskog et al. and further in view of Haartsen (U.S. Patent No. 6,112,088).

Referring to claims 2, 7, 17 and 22, Freeburg et al. and Lindskog et al. teach the limitations of claims 2,7,17 and 22 but do not teach wherein one of the first and second standards is compatible with the other of the first and second standards. Haartsen teaches wherein one of the first and second standards is compatible with the other of the first and second standards (Column 4, Lines 19-26). Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al. and Lindskog et al. with the teaching of Haartsen wherein one of the first and second standards is compatible with the other of the first and second standards to eliminate the need for additional transmit and receive circuitry within the mobile terminal (Column 4, Lines 26-28).

5. Claims 3,8, 18 and 23 are rejected under 35 USC 103(a) as being unpatentable over Freeburg et al. and Lindskog et al. and further in view of Gerdisch et al. (U.S. Patent No. 6,41,566).

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Referring to claims 3, 8, 18 and 23, Freeburg et al. and Lindskog et al. teach the limitations of claims 3,8,18 and 23 but do not teach upon failure of wireless communications utilizing the other of the first and second standards within the coverage area, wireless communications utilizing the other of the first and second standards within the coverage area is resumed with the antenna system employed for the compatible one of the first and second standards. Gerdisch et al. teaches upon failure of wireless communications utilizing the other of the first and second standards within the coverage area, wireless communications utilizing the other of the first and second standards within the coverage area is resumed with the antenna system employed for the compatible one of the first and second standards (Figure 2, 206 & 208 and Column 6, Lines 1-5). Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Freeburg et al. and Lindskog et al. with the teaching of Gerdisch et al. wherein upon failure of wireless communications utilizing the other of the first and second standards within the coverage area, wireless communications utilizing the other of the first and second standards within the coverage area is resumed with the antenna system employed for the compatible one of the first and second standards to provide continued communication when a link fails (Column 5, Line 65 to Column 6, Line 7).

6. Claims 4, 5, 9, 10, 19, 20, 24 and 25 are rejected under 35 USC 103(a) as being unpatentable over Freeburg et al. and Lindskog et al. and further in view of Lee et al. (U.S. Patent Publication No. 2003/0123479).

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Referring to claims 4, 9, 19 and 24, Freeburg et al. and Lindskog et al. teach the limitations of claims 4,9,19 and 24, but do not teach wherein the first standard is IS-2000 and the second standard is one of IxEV-DO and IxEV-DV. Lee et al teaches wherein the first standard is IS-2000 and the second standard is one of IxEV-DO and IxEV-DV (0024). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al. and Lindskog et al. with the teaching of Lee et al wherein the first standard is IS-2000 and the second standard is one of IxEV-DO and IxEV-DV to provide a mobile subscriber with a packet service as well as a voice service (0024).

Referring to claims 5, 10, 20 and 25, Freeburg et al. and Lindskog et al. teach the limitations of claims 5, 10,20 and 25, but do not teach wherein the first standard is one of IxEV-DO and IxBV -DV and the second standard is IS-2000. Lee et al teaches wherein the first standard is one of IxEV-DO and IxEV-DV and the second standard is IS-2000 (0024). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al. and Lindskog et al. with the teaching of Lee et al wherein the first standard is one of IxEV-DO and IxEV-DV and the second standard is IS-2000 to provide a mobile Subscriber with a packet service as well as a voice service (0024).

7. Claims 11,12,13,26,27 and 28 are rejected under 35 USC 103(a) as being unpatentable over Freeburg et al. in view of Lindskog et al. in view of Haartsen and further in view of Gerdisch et al.

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Referring to claims 11 and 26. Freeburg et al. teaches for use in a base transceiver station of a wireless communications system, an apparatus for supporting dual standards comprising: utilizing a first standard (Figure 5 & 6 and Column 4, Lines 18-28) within a coverage area (Figure 5); and utilizing a second standard (Figure 5 & 6 and Column 4, Lines 18-28) within the coverage area (Figure 5), but does not teach using a sectored antenna system for wireless communications and using an omni antenna system for wireless communications. Lindskog et al. teaches using a sectored antenna system for wireless communications and using an omni antenna system for wireless communications (Column 1, Lines 53-61 and Column 2, Lines 47-48). Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al. with the teaching of Lindskog et al. of using a sectored antenna system for wireless communications and using an omni antenna system for wireless communications to optimize performance and minimize interference of a cellular communication system (Column 2, Lines 45-54). Freeburg et al. and Lindskog et al. teach the limitations of claims 11 and 26, but do not teach wherein one of the first and second standards is compatible with the other of the first and second standards. Haartsen teaches wherein one of the first and second standards is compatible with the other of the first and second standards (Column 4, Lines 19-26). Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al. and Lindskog et al. with the teaching of Haartsen wherein one of the first and second standards is compatible with the other of the first and second standards to eliminate the need for additional transmit and receive circuitry within the mobile terminal (Column 4, Lines 26-28). Freeburg et al., Lindskog et al. and Haartsen teach the limitations of claims 11 and 26 but do not teach upon

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failure of wireless communications utilizing the other of the first and second standards within the coverage area, wireless communications utilizing the other of the first and second standards within the coverage area is resumed with the antenna system employed. Gerdisch et al. teaches upon failure of wireless communications utilizing the other of the first and second standards within the coverage area (Figure 2, 206 & 208), wireless communications utilizing the other of the first and second standards within the coverage area is resumed with the antenna system employed (Column 6, Lines 1-5). Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Freeburg et al., Lindskog et al. and Haartsen with the teaching of Gerdisch et al. wherein upon failure of wireless communications utilizing the other of the first and second standards within the coverage area, wireless communications utilizing the other of the first and second standards within the coverage area is resumed with the antenna system employed to provide continued communication when a link fails (Column 5, Line 65 to Column 6, Line 7).

Referring to claims 12 and 27, Lindskog et al. further teaches wherein the first antenna system is a sectored system and the second antenna system is an Omni system (Column 2, Lines 47-48).

Referring to claims 13 and 28, Lindskog et al further teaches wherein the first antenna system is an omni system and the second antenna system is a sectored system (Column 2, Lines 47-48).

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8. Claims 14, 15, 29 and 30 are rejected under 35 USC 103(a) as being unpatentable over Freeburg et al., Lindskog et al., Haartsen and Gerdisch et al. in view of Lee et al.

Referring to claims 14 and 29, Freeburg et al., Lindskog et al., Haartsen and Gerdisch et al. teach the limitations of claims 14 and 29, but do not teach wherein the first standard is IS-2000 and the second standard is one of IxEV-DO and IxEV-DV. Lee et al teaches wherein the first standard is IS-2000 and the second standard is one of IxEV-DO and IxEV-DV (0024). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al., Lindskog et al., Haartsen and Gerdisch et al. with the teaching of Lee et al wherein the first standard is IS-2000 and the second standard is one of IxEV-DO and IxEV-DV to provide a mobile subscriber with a packet service as well as a voice service (0024).

Referring to claims 15 and 30, Freeburg et al., Lindskog et al., Haartsen and Gerdisch et al. teach the limitations of claims 15 and 30, but do not teach wherein the first standard is one of IxEV-DO and IxBV -DV and the second standard is IS-2000. Lee et al teaches wherein the first standard is one of IxEV-DO and IxEV-DV and the second standard is IS-2000 (0024). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Freeburg et al., Lindskog et al., Haartsen and Gerdisch et al. with the teaching of Lee et al wherein the first standard is one of IxEV-DO and IxEV-DV and the second standard is IS-2000 to provide a mobile Subscriber with a packet service as well as a voice service (0024).

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Huang et al. U.S. Patent No. 6,351,654 discloses antenna configuration for a hybrid inner/outer sectored cell.

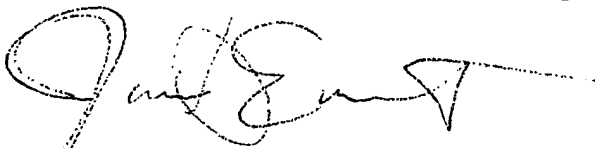
Stein U.S. Patent No. 5,771,468 discloses multi-purpose base station.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James D. Ewart whose telephone number is (571) 272-7864. The examiner can normally be reached on M-F 7am - 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (571)272-7872. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-2600.

Ewart
January 17, 2006



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